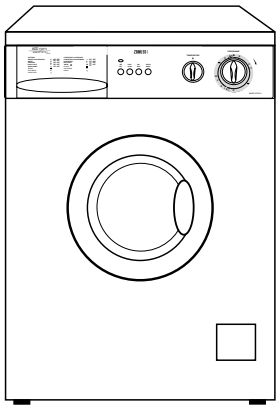
ZANUSSI

WASHING MACHINE

ZWM 160



INSTRUCTION BOOKLET

GB

CN

132990220

Dear customer,

Please read these operating instructions carefully and pay particular attention to the safety notes indicated in the first pages. We recommend that you keep this instruction booklet for future reference and pass it on to any future owners.

Transport damages

When unpacking the appliance, check that it is not damaged. If in doubt, do not use it and contact the Service Centre.

The symbols you will see on some paragraphs of this booklet have the following meaning:

The warning triangle and/or the key words (Warning!, Caution!) emphasize information that is particularly important for your safety or correct functioning of the appliance.

The information marked with this symbol provides additional instructions and practical tips on the use of the appliance.

Tips and information about economical and ecological use of the machine are marked with this symbol.

Our contribution to the protection of the environment: we use recycled paper.

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ENGLISH

⚠ Warnings

The following warnings are provided in the interests of overall safety. You must read them carefully before installing or using the appliance.

Installation

- All internal packing must be removed before using the appliance. Serious damage may be caused to the machine or adjacent furniture if the protective transit devices are not removed or are not completely removed. Refer to the relevant paragraph in the instruction book.
- Any electrical work required to install this appliance must be carried out by a qualified electrician.
- Any plumbing work required to install this appliance must be carried out by a qualified plumber.
- After having installed the machine, check that it is not standing on its electrical supply cable.
- If the appliance is placed on a carpeted floor, ensure that air can circulate freely between the feet and the floor.

Use

- This appliance is designed for domestic use. It must not be used for purposes other than those for which it was designed.
- Only wash fabrics which are designed to be machine washed. Follow the instructions on each garment label.
- Do not overload the appliance. Follow the instructions in the instruction book.
- Make sure that all pockets are empty. Objects such as coins, safety pins, pins and screws can cause extensive damage.
- Do not machine wash garments saturated with petroleum, methylated spirits, trichlorethylene, etc. If such fluids have been used to remove stains prior to washing, wait until they have completely evaporated from the fabric before placing garments in the appliance.
- Place small items such as socks, belts, etc. in a cloth bag or pillowcase to prevent them getting trapped between the drum and the tub.
- Use only the recommended quantities of fabric softener. An excessive amount could damage the laundry.
- Leave the porthole door slightly ajar when the appliance is not in use. This preserves the door seal and prevents the formation of musty smells.
- Always check that water has emptied out before opening the door. If not, drain the water following the instructions in the instruction book.
- Always unplug the appliance and shut the water tap after use.

General safety

- Repairs to the machine must be carried out only by qualified personnel. Repairs carried out by inexperienced persons could cause serious danger. Contact your local Service Centre.
- Never pull the power supply cable to remove the plug from the socket; always take hold of the plug itself.
- During high temperature wash programmes the door glass may get hot. Do not touch it!

Child safety

- Children are often not aware of how dangerous electrical appliances can be. When the machine is working, children should be carefully supervised and not be allowed to play with the appliance.
- The packaging components (e.g. plastic film, polystyrene) can be dangerous to children - danger of suffocation! Keep them out of children's reach.
- Keep all detergents in a safe place out of children's reach.
- Make sure that children or pets do not climb into the drum.
- When the appliance is to be scrapped, cut off the electrical supply cable and destroy the plug with the remaining cable. Disable the door catch in order to prevent children from becoming trapped inside while playing.

Disposal

Packaging materials

The materials marked with the symbol ♺ are recyclable.

>PE<=polyethylene

>PS<=polystyrene

>PP<=polypropylene

This means that they can be recycled by disposing of them properly in appropriate collection containers.

Machine

Use authorised disposal sites for your old appliance. Help to keep your country tidy!

Tips for environmental protection

To save water, energy and to help protect the environment, we recommend that you follow these tips:

- Normally soiled laundry may be washed without prewashing in order to save detergent, water and time (the environment is protected too!).
- The machine works more economically if it is fully loaded. Do not overload!
- With adequate pre-treatment, stains and limited soiling can be removed; the laundry can then be washed at a lower temperature.
- Measure out detergent according to the water hardness, the degree of soiling and the quantity of laundry being washed.

Technical specifications

DIMENSIONS	Height	85 cm
	Width	60 cm
	Depth	54 cm
MAXIMUM LOAD	Cotton	5 kg
	Synthetics	2 kg
	Delicates	2 kg
	Woollens	1 kg
SPIN SPEED		600 rpm max.
POWER SUPPLY VOLTAGE/FREQUENCY		220-230 V/50 Hz
TOTAL POWER ABSORBED		2250 W
MINIMUM FUSE PROTECTION		10 A
WATER PRESSURE	Minimum	0,05 MPa
	Maximum	0,8 MPa

CE This appliance complies with the following EEC Directives:
73/23/EEC of 19/02/73 relating to low voltage
89/336/EEC of 03/05/89 relating to electromagnetic compatibility.

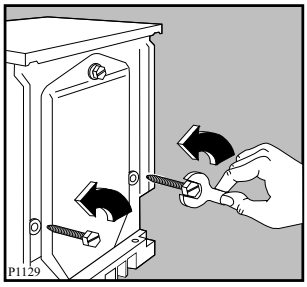
Installation

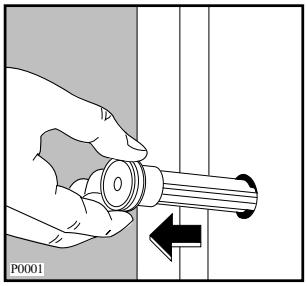
Unpacking

⚠ All transit bolts and packing must be removed before using the appliance.

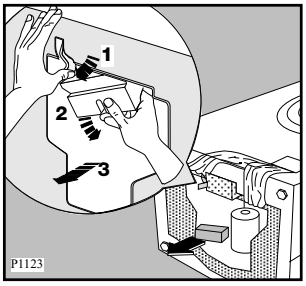
You are advised to keep all transit devices so that they can be refitted if the machine ever has to be transported again.

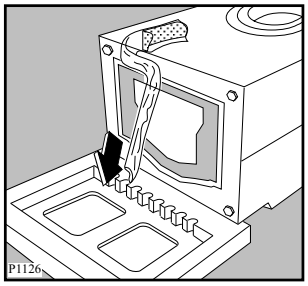
1. Using a spanner, unscrew and remove the two rear bottom screws. Slide out the two plastic pins.



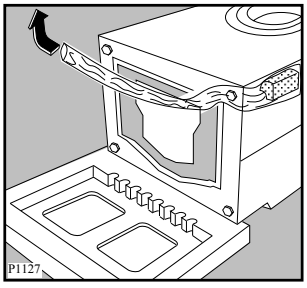


2. Lay the machine on its back, taking care not to squash the hoses. This can be avoided by placing one of the corner packing pieces between the machine and the floor.
3. Remove the polystyrene block(s) from the bottom of the machine. Unscrew and remove the four feet. Release the two plastic bags.
4. Very carefully slide out the left polythene bag, removing it towards the right and then downwards.

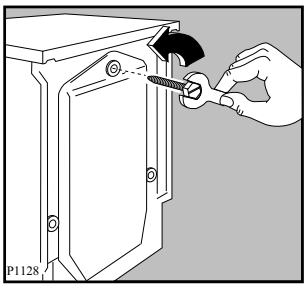


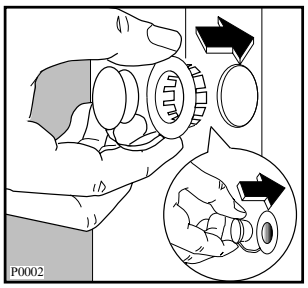


5. Very carefully slide out the right polythene bag, removing it towards the left and then upwards.



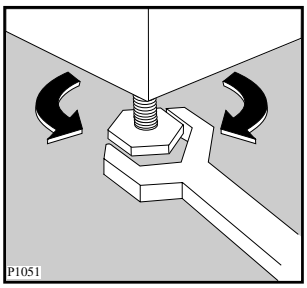
6. Set the machine upright and remove the remaining rear screw. Slide out the relevant pin.
7. Plug all the holes with the plugs which you will find in the envelope containing the instruction booklet.





Positioning and levelling

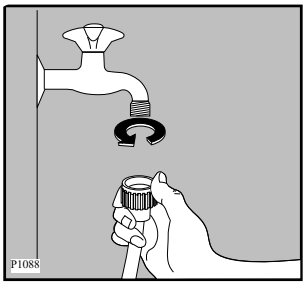
Install the machine on a flat hard floor.
Make sure that air circulation around the machine is not impeded by carpets, rugs etc. Check that the machine does not touch the wall or other kitchen units.
Carefully level by screwing the adjustable feet in or out. Never place cardboard, wood or similar materials under the machine to compensate for any unevenness in the floor.

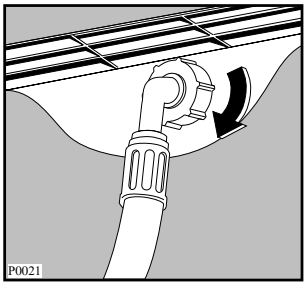


Water inlet

Connect the water inlet hose to a tap with a 3/4" thread.

The other end of the inlet hose which connects to the machine can be turned in any direction. Simply loosen the fitting, rotate the hose and retighten the fitting, making sure there are no water leaks.



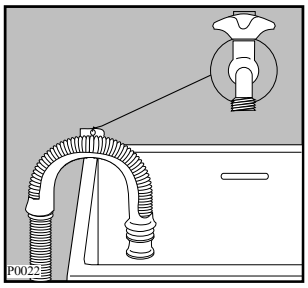


The inlet hose must not be lengthened. If it is too short and you do not wish to move the tap, you will have to purchase a new, longer hose specially designed for this type of use.

Water drainage

The end of the drain hose can be positioned in three ways:

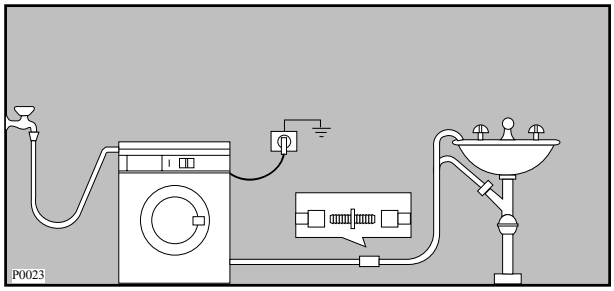
Hooked over the edge of a sink using the plastic hose guide supplied with the machine. In this case, make sure the end cannot come unhooked when the machine is emptying.
This could be done by tying it to the tap with a piece of string or attaching it to the wall.



In a sink drain pipe branch. This branch must be above the trap so that the bend is at least 60 cm above the ground.

Directly into a drain pipe at a height of not less than 60 cm and not more than 90 cm.
The end of the drain hose must always be **ventilated**, i.e. the inside diameter of the drain pipe must be larger than the outside diameter of the drain hose.

The drain hose must not be kinked. Run it along the floor; only the part near the drainage point must be raised.



Electrical connection

This machine is designed to operate on a 220-230 V, single-phase, 50 Hz supply.

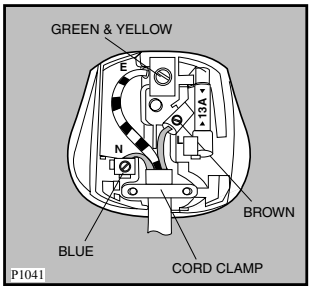
Check that your domestic electrical installation can take the maximum load required (2.25 kW), also taking into account any other appliances in use.

WARNING: THIS APPLIANCE MUST BE EARTHED.

The manufacturer declines any liability should this safety measure not be observed.

The appliance is supplied with a 13amp plug fitted. In the event of having to change the fuse in the plug supplied, a 13amp ASTA approved (BS1363A) fuse must be used.
Should the plug need to be replaced for any reason, proceed as described below.
The wires in the mains lead are coloured in accordance with the following code:

Green and Yellow	- Earth
Blue	- Neutral
Brown	- Live



The wire coloured green and yellow must be connected to the terminal marked with the letter «E» or by the earth symbol ⏚ or coloured green and yellow.

The wire coloured blue must be connected to the terminal «N» or coloured black.

The wire coloured brown must be connected to the terminal marked «L» or coloured red.
Upon completion there must be no cut, or stray strands of wire present and the cord clamp must be secure over the outer sheath.

WARNING:

A cut off plug inserted into a 13 amp socket is a serious safety (shock) hazard.
Ensure that the cut off plug is disposed of safely.

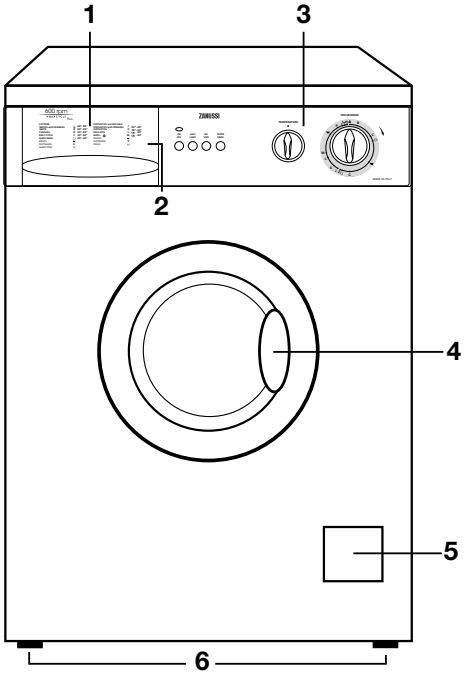
Your new washing machine

This new machine meets all modern requirements for effective treatment of laundry with low water, energy and detergent consumption.

- **The temperature selector dial** will allow you to choose the most suitable temperature for your laundry.
- The **automatic cooling of the washing water** from 95° to 60°C before draining will prevent old drain pipes from being deformed.

Description of the appliance

1 Detergent dispenser drawer
2 Programme chart
3 Control panel
4 Door handle
5 Drain filter
6 Adjustable feet

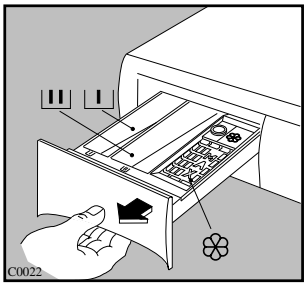


Detergent dispenser drawer

Prewash

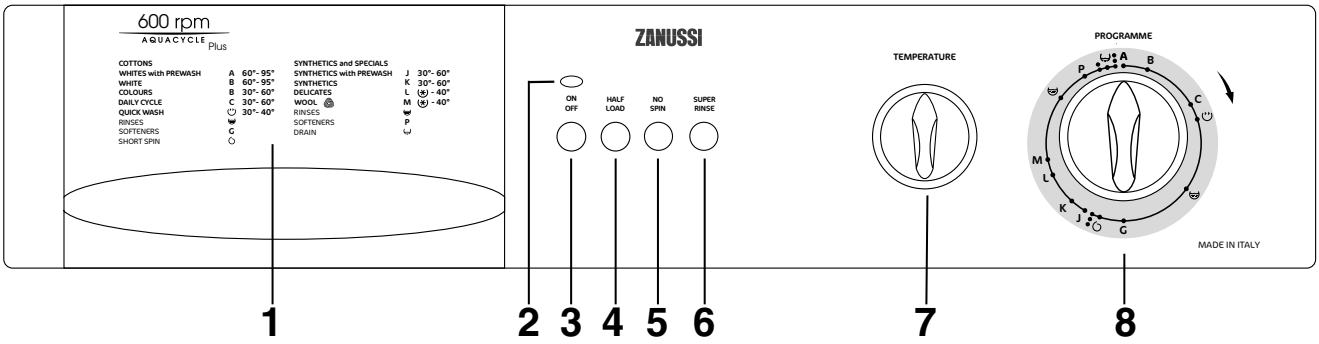
Main wash

Fabric softener, starch



Use

Control panel



1 Detergent dispenser drawer and programme chart

2 Mains on light

This light is on whilst the machine is operating and goes out at the end of the programme.

3 “ON OFF” button

By depressing this button the machine is switched on. By depressing it again the machine is switched off.

4 “HALF LOAD” button

Select this button to reduce water consumption on the rinse cycle when washing a half load of cottons or linens.

5 “NO SPIN” button

Depress this botton when you have to wash particularly delicate cotton or linen items in order to exclude all the spinning phases.

6 “SUPER RINSE” button

Can be used only for cotton programmes A-B-C and .
The machine will perform the rinses with more water. This option is recommended for people who are allergic to detergents and in areas where the water is very soft.

7 “TEMPERATURE” selector dial

Turn this dial to select the washing temperature.
Position = cold wash.

8 “PROGRAMME” selector dial

To select the required programme, turn this dial **clockwise** until the programme letter is exactly opposite the pointer.
Before selecting a programme or changing a programme in progress the machine must be switched off by depressing ON OFF button.

ⓘ Washing hints

Sorting the laundry

Follow the wash code symbols on each garment label and the manufacturer's washing instructions. Sort the laundry as follows:
whites, coloureds, synthetics, delicates, woollens.

Temperatures

90-95° for normally soiled white cottons and linen (e.g. tea cloths, towels, tablecloths, sheets...)

60° for normally soiled, colour fast garments (e.g. shirts, night dresses, pyjamas....) in linen, cotton or synthetic fibres and for lightly soiled white cotton (e.g. underwear).

(cold) 30°-40° for delicate items (e.g. net curtains), mixed laundry including synthetic fibres and woollens bearing the label «pure new wool, machine washable, non-shrink».

Before loading the laundry

Never wash whites and coloureds together. Whites may lose their "whiteness" in the wash.

New coloured items may run in the first wash; they should therefore be washed separately the first time.

Make sure that no metal objects are left in the laundry (e.g. hair clips, safety pins, pins).

Button up pillowcases, close zip fasteners, hooks and poppers. Tie any belts or long tapes.

Remove persistent stains before washing. Rub particularly soiled areas with a special detergent or detergent paste.

Treat curtains with special care. Remove hooks or tie them up in a bag or net.

Maximum loads

Recommended loads are indicated in the programme charts.

General rules:

Cotton, linen: drum full but not too tightly packed;

Synthetics: drum no more than half full;

Delicate fabrics and woollens: drum no more than one third full.

Washing a maximum load makes the most efficient use of water and energy.

For heavily soiled laundry, reduce the load size.

Laundry weights

The following weights are indicative:

bathrobe	1200 g
napkin	100 g
quilt cover	700 g
sheet	500 g
pillow case	200 g
tablecloth	250 g
towelling towel	200 g
tea cloth	100 g
night dress	200 g
ladies' briefs	100 g
man's work shirt	600 g
man's shirt	200 g
man's pyjamas	500 g
blouse	100 g
men's underpants	100 g

Removing stains

Stubborn stains may not be removed by just water and detergent. It is therefore advisable to treat them prior to washing.

Blood: treat fresh stains with cold water. For dried stains, soak overnight in water with a special detergent then rub in the soap and water.

Oil based paint: moisten with benzine stain remover, lay the garment on a soft cloth and dab the stain; treat several times.

Dried grease stains: moisten with turpentine, lay the garment on a soft surface and dab the stain with the fingertips and a cotton cloth.

Rust: oxalic acid dissolved in hot water or a rust removing product used cold. Be careful with rust stains which are not recent since the cellulose structure will already have been damaged and the fabric tends to hole.

Mould stains: treat with bleach, rinse well (whites and fast coloureds only).

Grass: soap lightly and treat with bleach (whites and fast coloureds only).

Ball point pen and glue: moisten with acetone (*), lay the garment on a soft cloth and dab the stain.

Lipstick: moisten with acetone as above, then treat stains with methylated spirits. Remove any residual marks from white fabrics with bleach.

Red wine: soak in water and detergent, rinse and treat with acetic or citric acid, then rinse. Treat any residual marks with bleach.

Ink: depending on the type of ink, moisten the fabric first with acetone (*), then with acetic acid; treat any residual marks on white fabrics with bleach and then rinse thoroughly.

Tar stains: first treat with stain remover, methylated spirits or benzine, then rub with detergent paste.

(*) do not use acetone on artificial silk.

Detergents and additives

Good washing results also depend on the choice of detergent and use of the correct quantities to avoid waste and protect the environment. Although biodegradable, detergents contain substances which, in large quantities, can upset the delicate balance of nature.

The choice of detergent will depend on the type of fabric (delicates, woollens, cottons, etc.), the colour, washing temperature and degree of soiling.

All commonly available washing machine detergents may be used in this appliance:

– powder detergents for all types of fabric,

– powder detergents for delicate fabrics (60°C max) and woollens,

– liquid detergents, preferably for low temperature wash programmes (60°C max) for all types of fabric, or special for woollens only.

The detergent and any additives must be placed in the appropriate compartments of the dispenser drawer before starting the wash programme.

If using concentrated powder or liquid detergents, a programme **without** prewash must be selected.

The washing machine incorporates a recirculation system which allows an optimal use of the concentrated detergent.

Pour liquid detergent into the dispenser drawer compartment marked **just before** starting the programme.

Any fabric softener or starching additives must be poured into the compartment marked before starting the wash programme.

Follow the product manufacturer’s recommendations on quantities to use and **do not exceed the «MAX» mark in the detergent dispenser drawer.**

Quantity of detergent to be used

The type and quantity of detergent will depend on the type of fabric, load size, degree of soiling and hardness of the water used.

Water hardness is classified in so-called “degrees” of hardness. Information on hardness of the water in your area can be obtained from the relevant water supply company, or from your local authority.

Follow the product manufacturers’ instructions on quantities to use.

Use less detergent if:

– you are washing a small load,

– the laundry is lightly soiled,

– large amounts of foam form during washing.

International wash code symbols

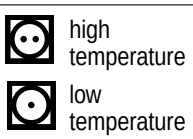
These symbols appear on fabric labels, in order to help you choose the best way to treat your laundry.

Energetic wash **Delicate wash**	 Max. wash temperature 95°C	 Max. wash temperature 60°C 	 Max. wash temperature 40°C 	 Max. wash temperature 30°C 	 Hand wash	 Do not wash at all

 Bleaching	 Bleach in cold water	 Do not bleach

 Ironing	 Hot iron max 200°C	 Warm iron max 150°C	 Lukewarm iron max 110°C	 Do not iron

 Dry cleaning	 Dry cleaning in all solvents	 Dry cleaning in perchlorethylene, petrol, pure alcohol, R 111 & R 113	 Dry cleaning in petrol, pure alcohol and R 113	 Do not dry clean

 Drying	 Flat	 On the line	 On clothes hanger	 high temperature low temperature Tumble dry	 Do not tumble dry

Operating sequence

Before washing your first load of laundry, we recommend that you run a cotton cycle at 60°C, with the machine empty, in order to remove any manufacturing residue from the drum and tub.
Pour half a measure of detergent into the main wash compartment and start up the machine.

1. Place the laundry in the drum

Open the door.

Place the laundry in the drum, one item at a time, shaking them out as much as possible.

Close the door.

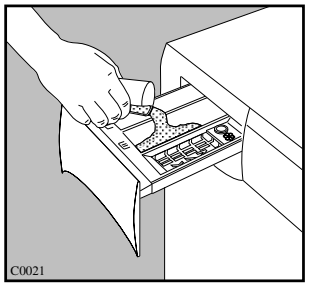
2. Measure out the detergent

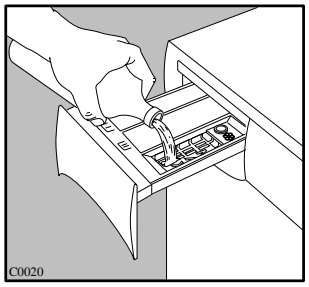
Pull out the dispenser drawer until it stops. Measure out the amount of detergent recommended by the manufacturer in a graduated cup and pour it into the main wash compartment II.

If you wish to carry out the prewash, pour detergent into the appropriate compartment marked I.

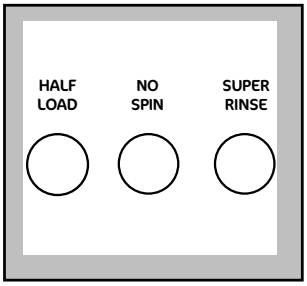
3. Measure out the additive

If required, pour fabric softener into the compartment marked ❀, **without exceeding the «MAX» mark.**



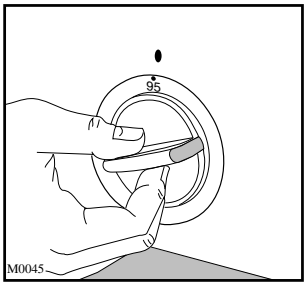


4. Select the desired option



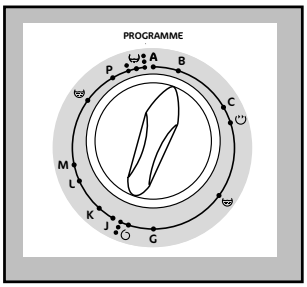
5. Select the temperature

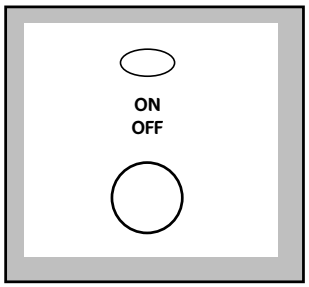
Turn the dial to the required setting.



6. Select the programme and start the machine

Turn the programme selector dial **clockwise** to the required programme and press the ON OFF button: the mains on light comes on and the machine starts to operate.





7. At the end of the programme

The machine stops automatically. The mains on light goes out.

If you have selected a programme which ends with the water of the last rinse left in the tub, drain the water before opening the door selecting programme or .

Wait one or two minutes before opening the door to give the electric locking mechanism time to release it.

Depress the ON OFF button again to switch the machine off.

Remove the laundry.

Turn the drum by hand to make sure it is completely empty, so as to avoid any forgotten items being damaged in a subsequent wash (e.g. shrinking) or their colour running into a load of whites.

Release any buttons which have been pressed.

Turn the water tap off and unplug the machine.

Leave the door ajar to air the machine.

Programme table

Washing programmes for cotton and linen

Max. load: 5 kg

Progr.	Temp.	Type of laundry	Cycle description	Possible options
A	**60°-95°**	Whites with prewash (heavy soiled)	Prewash Wash at 60°-95°C 4 rinses Long spin	**HALF LOAD** **NO SPIN** **SUPER RINSE**
B	**60°-95°**	Whites without prewash (normally soiled)	Wash at 60°-95°C 4 rinses Long spin	**HALF LOAD** **NO SPIN** **SUPER RINSE**
B	**30°-60°**	Coloureds without prewash (normally soiled)	Wash at 30°-60°C 4 rinses Long spin	**HALF LOAD** **NO SPIN** **SUPER RINSE**
C	**30°-60°**	Daily Cycle (lightly soiled cottons)	Wash at 30°-60°C 4 rinses Long spin	**HALF LOAD** **NO SPIN** **SUPER RINSE**
	30°-40°	Quick wash lightly soiled laundry	Wash at 30°-40°C 4 rinses Long spin	**HALF LOAD** **NO SPIN** **SUPER RINSE**
		Rinses	4 rinses with liquid additive, if required Long spin	**HALF LOAD** **NO SPIN** **SUPER RINSE**
G		Softeners	1 rinse with fabric softner Long spin	**NO SPIN**
		Short spin	Drain and short spin	

The temperatures indicated are the optimum temperatures for each programme and depend on the type of laundry and degree of soiling.

The consumption figures indicated on the energy label refer to the 60°C wash programme for cotton (programme “**B**”).

Programme table

Washing programmes for synthetics, mixed fabrics, delicates and wool

Max. load: 2 kg, wool 1 kg

Progr.	Temp.	Type of laundry	Cycle description	Possible options
J	**30°-60°**	Synthetics with prewash (heavy soiled)	Prewash Wash at 30°-60°C 3 rinses Stop with water in the tub	
K	**30°-60°**	Synthetics without prewash (normally soiled)	Wash at 30°-60°C 3 rinses Stop with water in the tub	
L	**-40°**	Delicates	Wash at -40°C 3 rinses Stop with water in the tub	
M	**-40°**	Woollens	Wash at -40°C 3 rinses Stop with water in the tub	
		Rinses	3 rinses with fabric softener Stop with water in the tub	
P		Softeners	1 rinse with fabric softener Stop with water in the tub	
		Drain	Draining of water	

The temperatures indicated are the optimum temperatures for each programme and depend on the type of laundry and degree of soiling.

The water of the last rinse of these programmes is not emptied out to avoid any creasing in the fabrics.
To drain water select programme (short spin) or (drain only).

Maintenance

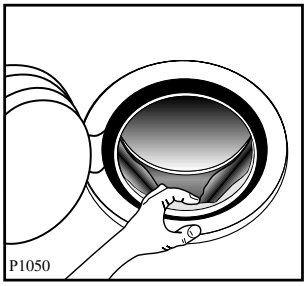
Bodywork

Clean the outside of the machine with soap and water only. Rinse with clean water and dry with a soft cloth.

Important: do not use methylated spirits, solvents or similar products to clean the bodywork.

Door seal

Check from time to time the door seal and eliminate eventual possible objects that could be trapped in the fold.

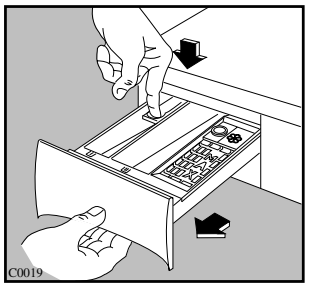


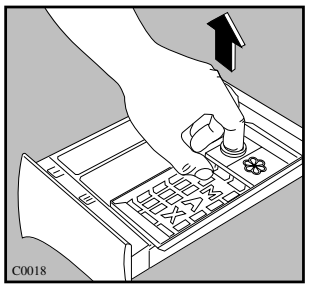
Detergent dispenser drawer

After a while, detergents and fabric softeners leave deposits in the drawer.

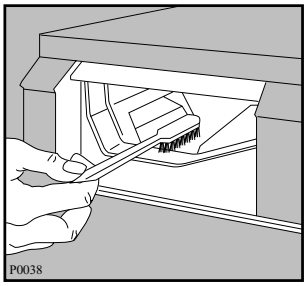
Clean the drawer from time to time by rinsing it under a running tap. To remove the drawer from the machine, press the button in the rear left-hand corner.

To facilitate cleaning, the top part of the additive compartments can be removed.





Detergent can also accumulate inside the drawer recess: clean it with an old toothbrush. Refit the drawer after cleaning.

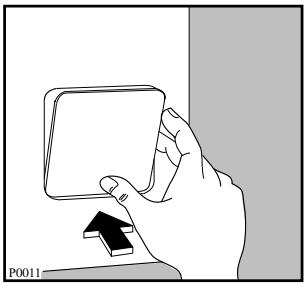


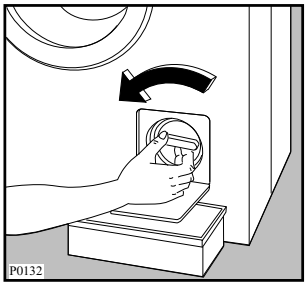
Drain filter

The drain filter collects threads and small objects inadvertently left in the laundry. Check regularly that the filter is clean.

Open the filter door.

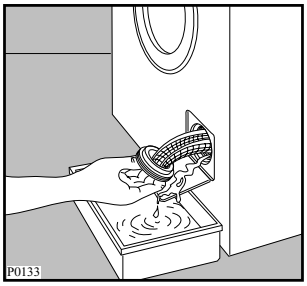
Place a container under the filter and unscrew it.

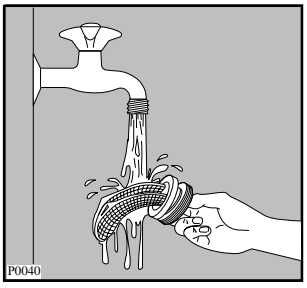




Pull out the filter.

Clean the filter under a running tap, then refit it, screwing it fully in.





Water inlet filter

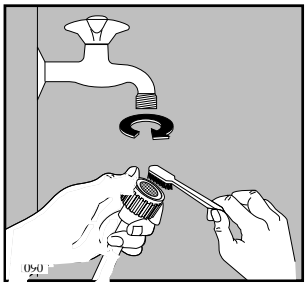
If you notice that the machine is taking longer to fill, check that the filter in the water inlet hose is not blocked.

Turn off the water tap.

Unscrew the hose from the tap.

Clean the filter with a stiff brush.

Screw the hose back onto the tap.



Emergency emptying out

If the water is not discharged, proceed as follows to empty out the machine:

- pull out the plug from the power socket;
- close the water tap;
- if necessary, wait until the water has cooled down;
- place a bowl on the floor;
- put the drain hose end into the bowl and let the water come out.

Should it not be possible to have access to the drain hose because, for example, the appliance is built in the kitchen furniture, slightly loosen the drain filter after placing a bowl on the floor, to let the water come out slowly.

At the end screw the filter again.

Frost precautions

If the machine is installed in a place where the temperature could drop below 0°C, proceed as follows:

- Close the water tap and unscrew the water inlet hose from the tap.
- Place the end of the drain hose and that of the inlet hose in a bowl placed on the floor.
- Select programme and run it until the machine stops.
- Remove the plug from the socket.
- Screw the water inlet hose back on and put the drain hose back in its place.

By doing this, any water remaining in the machine is removed, avoiding the formation of ice and, consequently, breakage of the affected parts.

When you use the machine again, make sure that the ambient temperature is above 0°C.

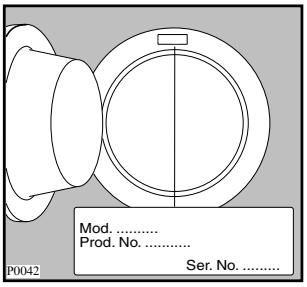
Something not working?

Problems which you can resolve yourself.

Problem	Possible cause
• **The machine does not start up:**	• The door is not firmly closed. • The machine is not plugged in or there is no power at the socket. • The main fuse has blown. • The programme selector dial is not positioned correctly and the ON OFF button has not been depressed.
• **The machine does not fill:**	• The water tap is closed. • The inlet hose is squashed or kinked. • The filter in the inlet hose is blocked. • The door is not properly closed.
• **The machine fills then empties immediately:**	• The end of the drain hose is too low. Refer to relevant paragraph in “water drainage” section.
• **The machine does not empty and/or does not spin:**	• The drain hose is squashed or kinked. • A gentle programme which ends with water in the tub has been performed. • The drain filter is clogged.
• **There is water on the floor:**	• Too much detergent or unsuitable detergent (creates too much foam) has been used. • Check whether there are any leaks from one of the inlet hose fittings. It is not always easy to see this as the water runs down the hose; check to see if it is damp. • The drain hose is damaged.
• **Unsatisfactory washing results:**	• Too little detergent or unsuitable detergent has been used. • Stubborn stains have not been treated prior to washing. • The correct temperature was not selected. • Excessive laundry load.
• **The machine vibrates or is noisy:**	• The transit bolts and packing have not been removed. • The support feet have not been adjusted. • The laundry is not evenly distributed in the drum. • Maybe there is very little laundry in the drum.
• **The door will not open:**	• The programme is still running. • The door lock has not been released. • There is water in the drum.

Problem	Possible cause
• **Water is not visible in the machine:**	• The machine, which is the result of modern technology, runs in a very economical way with low water consumption. Performance is nevertheless excellent.

If you are unable to identify or solve the problem, contact our service centre. Before telephoning, make a note of the model, serial number and purchase date of your machine: the Service Centre will require this information.



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